

Hao Wan

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,485
citations

361045

20
h-index

329751

37
g-index

40
all docs

40
docs citations

40
times ranked

2084
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. Nano Letters, 2019, 19, 4518-4526.	4.5	191
2	Metal-Organic Framework Hexagonal Nanoplates: Bottom-up Synthesis, Topotactic Transformation, and Efficient Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 7317-7321.	6.6	140
3	Layered Metal Hydroxides and Their Derivatives: Controllable Synthesis, Chemical Exfoliation, and Electrocatalytic Applications. Advanced Energy Materials, 2020, 10, 1902535.	10.2	90
4	2D Free-Standing Nitrogen-Doped Ni ₃ S ₂ @Carbon Nanoplates Derived from Metal-Organic Frameworks for Enhanced Oxygen Evolution Reaction. Small, 2019, 15, e1900348.	5.2	88
5	Controllable atomic defect engineering in layered Ni _x Fe _{1-x} (OH) ₂ nanosheets for electrochemical overall water splitting. Journal of Materials Chemistry A, 2021, 9, 14432-14443.	5.2	84
6	Recent progress in functionalized layered double hydroxides and their application in efficient electrocatalytic water oxidation. Journal of Energy Chemistry, 2019, 32, 93-104.	7.1	70
7	In Situ Anchoring Massive Isolated Pt Atoms at Cationic Vacancies of Ni _x Fe _{1-x} (OH) ₂ to Regulate the Electronic Structure for Overall Water Splitting. Advanced Functional Materials, 2022, 32, .	7.8	63
8	Single-atom catalysts for electrochemical energy storage and conversion. Journal of Energy Chemistry, 2021, 63, 170-194.	7.1	61
9	Rare Cobalt-Based Phosphate Nanoribbons with Unique 5-Coordination for Electrocatalytic Water Oxidation. ACS Energy Letters, 2018, 3, 1254-1260.	8.8	57
10	Recent advances in developing high-performance nanostructured electrocatalysts based on 3d transition metal elements. Nanoscale Horizons, 2019, 4, 789-808.	4.1	53
11	Microcrystallization and lattice contraction of NiFe LDHs for enhancing water electrocatalytic oxidation. , 2022, 4, 901-913.		49
12	Advanced Electrocatalytic Performance of Ni-Based Materials for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 341-349.	3.2	43
13	Hybrid Nanostructures of Bimetallic NiCo Nitride/N-Doped Reduced Graphene Oxide as Efficient Bifunctional Electrocatalysts for Rechargeable Zn-Air Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 19612-19620.	3.2	41
14	Liquid Phase Exfoliation of MoS ₂ Assisted by Formamide Solvothermal Treatment and Enhanced Electrocatalytic Activity Based on (H ₃ Mo ₁₂ O ₄₀ /P/MoS ₂) _n Multilayer Structure. ACS Sustainable Chemistry and Engineering, 2018, 6, 5227-5237.	3.2	39
15	Post-synthesis isomorphous substitution of layered Co-Mn hydroxide nanocones with graphene oxide as high-performance supercapacitor electrodes. Nanoscale, 2019, 11, 6165-6173.	2.8	39
16	Advanced electrocatalysts based on two-dimensional transition metal hydroxides and their composites for alkaline oxygen reduction reaction. Nanoscale, 2020, 12, 21479-21496.	2.8	39
17	Activating Hematite Nanoplates via Partial Reduction for Electrocatalytic Oxygen Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 11841-11849.	3.2	35
18	Morphological Evolution and Magnetic Property of Rare-Earth-Doped Hematite Nanoparticles: Promising Contrast Agents for T ₁ -Weighted Magnetic Resonance Imaging. Advanced Functional Materials, 2017, 27, 1606821.	7.8	34

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19	<i>In situ</i> growth of metallic Ag ⁰ intercalated CoAl layered double hydroxides as efficient electrocatalysts for the oxygen reduction reaction in alkaline solutions. Dalton Transactions, 2019, 48, 1084-1094.	1.6	30
20	Three-dimensionally interconnected Si frameworks derived from natural halloysite clay: a high-capacity anode material for lithium-ion batteries. Dalton Transactions, 2018, 47, 7522-7527.	1.6	28
21	Facile synthesis and lithium storage performance of (NH ₄) ₂ V ₃ O ₈ nanoflakes. Journal of Applied Electrochemistry, 2016, 46, 879-885.	1.5	24
22	Large-Scale Preparation, Chemical Exfoliation, and Structural Modification of Layered Zinc Hydroxide Nanocones: Transformation into Zinc Oxide Nanocones for Enhanced Photocatalytic Properties. ACS Sustainable Chemistry and Engineering, 2017, 5, 5869-5879.	3.2	20
23	Facile synthesis and characterization of core-shell structured Ag ₃ PO ₄ @Hal nanocomposites for enhanced photocatalytic properties. Applied Clay Science, 2017, 141, 132-137.	2.6	16
24	Composition Tuning of Ultrafine Cobalt-Based Spinel Nanoparticles for Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 5534-5543.	3.2	16
25	Advanced silicon nanostructures derived from natural silicate minerals for energy storage and conversion. Green Energy and Environment, 2022, 7, 205-220.	4.7	15
26	Montmorillonite: A structural evolution from bulk through unilaminar nanolayers to nanotubes. Applied Clay Science, 2020, 194, 105695.	2.6	14
27	Anchoring Active Sites by Pt ₂ FeNi Alloy Nanoparticles on NiFe Layered Double Hydroxides for Efficient Electrocatalytic Oxygen Evolution Reaction. Energy and Environmental Materials, 2022, 5, 270-277.	7.3	14
28	Acetate-induced controlled-synthesis of hematite polyhedra enclosed by high-activity facets for enhanced photocatalytic performance. RSC Advances, 2016, 6, 66879-66883.	1.7	12
29	Ultrathin Nanosheet-Assembled CoFe Hydroxide Nanotubes: Sacrificial Template Synthesis, Topotactic Transformation, and Their Application as Electrocatalysts for Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 46578-46587.	4.0	12
30	Activity enhancement of layered cobalt hydroxide nanocones by tuning interlayer spacing and phosphidation for electrocatalytic water oxidation in neutral solutions. Inorganic Chemistry Frontiers, 2019, 6, 1744-1752.	3.0	11
31	Luminescent Yttrium Oxide Nanosheets for Temperature Sensing. ACS Applied Nano Materials, 2021, 4, 12316-12324.	2.4	10
32	N-doped bimetallic sulfides hollow spheres derived from metal-organic frameworks toward cost-efficient and high performance oxygen evolution reaction. Applied Surface Science, 2022, 591, 153173.	3.1	10
33	Superlattice-Like Co-Doped Mn Oxide and NiFe Hydroxide Nanosheets toward an Energetic Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	9
34	Alternate Restacking of 2â€‰CoNi Hydroxide and Graphene Oxide Nanosheets for Energetic Oxygen Evolution. ChemSusChem, 2019, 12, 5274-5281.	3.6	6
35	Heterostructured NiFe oxide/phosphide nanoflakes for efficient water oxidation. Dalton Transactions, 2019, 48, 8442-8448.	1.6	6
36	Multi-shelled cobaltâ€‰nickel oxide/phosphide hollow spheres for an efficient oxygen evolution reaction. Dalton Transactions, 2020, 49, 10918-10927.	1.6	6

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37	Electronic configuration modulation of tin dioxide by phosphorus dopant for pathway change in electrocatalytic water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 83-89.	3.0	5
38	Hierarchical NiFeV hydroxide nanotubes: synthesis, topotactic transformation and electrocatalysis towards the oxygen evolution reaction. <i>Dalton Transactions</i> , 2022, 51, 11098-11107.	1.6	3
39	Tb ³⁺ /Sm ³⁺ co-doped double perovskite: synthesis, exfoliation and luminescence properties. <i>Chemical Communications</i> , 2022, 58, 6626-6629.	2.2	2
40	Luminescent properties of Gd(CO ₃)OH spherical particles with the prospect for CL microscopic analysis and multi-color displays. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	0